

Construction Drawings For

GALVESTON BAY FOUNDATION

DOLLAR BAY MARSH RESTORATION

Project No. 10189630

DOLLAR BAY, TEXAS
 MARCH 2021



INDEX OF DRAWINGS

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CALL BEFORE YOU DIG!

TEXAS 811 PARTICIPANTS REQUEST 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST - STOP AND CALL

Know what's below. Call before you dig. **811**

THE LONE STAR NOTIFICATION COMPANY
 AT 1-800-669-8344

1	2	3	4	5	6	7	8																																																						
GENERAL LINE SYMBOLOGY APPROXIMATE EXISTING GRADE SURVEY TRANSECT LOCATION SILT FENCE GEOTEXTILE FILTER FABRIC GRADED RIPRAP BREAKWATER TERRACE TERRACE BORROW TRENCH	SITE PLAN SYMBOLOGY MECHANICALLY PLACED EXCAVATED MATERIAL (SECTION VIEW) ENVIRONMENTALLY SENSITIVE AREA GEOTEXTILE FILTER FABRIC GRADED RIPRAP x-15.3 SPOT ELEVATION, FT (MARCH 2015) x-15.3 SPOT ELEVATION, FT (MAY 2016) @-15.3 SPOT ELEVATION, FT (FEBRUARY 2020) B-3 SOIL BORING LOCATION SURVEY CONTROL POINT S39 SURVEY TRANSECT ALIGNMENT POINT B108 BREAKWATER ALIGNMENT POINT T101A TERRACE ALIGNMENT POINT SWL STILL WATER LEVEL NEW DAYBEACON NEW DOUBLE SIDED DAYBEACON WARNING SIGN (TERRACE OPTION ONLY)	ABBREVIATIONS GRR GRADED RIPRAP MHHW MEAN HIGHER HIGH WATER MHW MEAN HIGH WATER MSL MEAN SEA LEVEL MLW MEAN LOW WATER MLLW MEAN LOWER LOW WATER RETL ROCK ENGINEERING & TESTING LABORATORY TCOON TEXAS COASTAL OCEAN OBSERVATION NETWORK NAVD NORTH AMERICAN VERTICAL DATUM NAD NORTH AMERICAN DATUM	SHEET NAMING CONVENTION AREA DESIGNATION EXAMPLE: 01 BUILDING OR AREA NAME DISCIPLINE DESIGNATOR & DISCIPLINE ORDER G GENERAL SURVEYING/MAPPING V DEMOLITION X CIVIL L LANDSCAPING U MULTI-DISCIPLINE S STRUCTURAL A ARCHITECTURAL D PROCESS M MECHANICAL (HVAC) P PLUMBING F FIRE PROTECTION E ELECTRICAL Y INSTRUMENTATION DRAWING TYPE DESIGNATOR 0 GENERAL (SYMBOLS, LEGENDS) 1 PLANS 2 ELEVATIONS 3 SECTIONS 4 LARGE SCALE VIEWS 5 DETAILS 6 SCHEDULES AND DIAGRAMS 8 PROFILES 9 3D REPRESENTATIONS EXAMPLE <table border="1"> <tr><td>0</td><td>5</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="6">DISCIPLINE DESIGNATOR</td></tr> <tr><td></td><td></td><td>A</td><td></td><td></td><td></td></tr> <tr><td colspan="6">SHEET TYPE DESIGNATOR</td></tr> <tr><td></td><td></td><td></td><td>-</td><td></td><td></td></tr> <tr><td colspan="6">SHEET NUMBER</td></tr> <tr><td></td><td></td><td></td><td></td><td>0</td><td>1</td></tr> </table>	0	5					DISCIPLINE DESIGNATOR								A				SHEET TYPE DESIGNATOR									-			SHEET NUMBER										0	1	GENERAL SYMBOLOGY ARROW INDICATES DIRECTION OF PLAN NORTH PLAN 1"=200' PLAN TITLE DETAIL NUMBER 3" = 1'-0" SHEET WHERE DETAIL WAS CALLED OUT * DETAIL TITLE SECTION LETTER FLAG INDICATES DIRECTION OF SECTION CUT SHEET WHERE SECTION IS LOCATED SECTION CUT MARKER SECTION LETTER SECTION 3/8" = 1'-0" SHEET WHERE SECTION VIEW IS FIRST CUT * SECTION TITLE * FOR COMMON DETAILS AND SECTIONS OR DETAILS THAT ARE CUT OR CALLED OUT ON MULTIPLE SHEETS, THE SHEET NUMBER IS REPLACED BY A DASH (-).	ELEVATION DATUM RELATIONSHIPS <table border="1"> <thead> <tr> <th>DATUM</th> <th>ELEVATION, FT NAVD</th> </tr> </thead> <tbody> <tr><td>MEAN HIGHER HIGH WATER (MHHW)</td><td>0.73</td></tr> <tr><td>MEAN HIGH WATER (MHW)</td><td>0.70</td></tr> <tr><td>MEAN TIDE LEVEL (MTL)</td><td>0.19</td></tr> <tr><td>MEAN SEA LEVEL (MSL)</td><td>0.24</td></tr> <tr><td>MEAN LOW WATER (MLW)</td><td>-0.33</td></tr> <tr><td>MEAN LOWER LOW WATER (MLLW)</td><td>-0.37</td></tr> </tbody> </table> TIDAL DATUM RELATIONSHIPS SHOWN ARE BASED ON NOAA TIDE STATION 8771013 EAGLE POINT, TX.	DATUM	ELEVATION, FT NAVD	MEAN HIGHER HIGH WATER (MHHW)	0.73	MEAN HIGH WATER (MHW)	0.70	MEAN TIDE LEVEL (MTL)	0.19	MEAN SEA LEVEL (MSL)	0.24	MEAN LOW WATER (MLW)	-0.33	MEAN LOWER LOW WATER (MLLW)	-0.37
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GENERAL NOTES:

- AERIAL PHOTOGRAPH SHOWN WAS FLOWN IN MARCH 2015 AND OBTAINED FROM AERIAL VIEWPOINT.
- ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN; THE LOCATION AND DEPTH OF UTILITIES SHOWN ARE APPROXIMATE ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR BEFORE WORK COMMENCES. PRIOR TO BEGINNING ANY EXCAVATION WORK IN THE AREA OF EXISTING UTILITIES, THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY FOR LOCATIONS AND DEPTHS TO PREVENT ANY DAMAGE OR INTERFERENCE WITH PRESENT FACILITIES. THIS ACTION HOWEVER, SHALL IN NO WAY BE INTERPRETED AS RELIEVING THE CONTRACTOR OF THE RESPONSIBILITY OF UTILITY VERIFICATION UNDER THE TERMS OF THE CONTRACT AS SET OUT IN THE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL VERIFY EXISTING GRADES PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS.
- PROJECT IS WITHIN AND ADJACENT TO ENVIRONMENTALLY SENSITIVE AREAS INCLUDING MARSH VEGETATION, AND OYSTER REEFS. CONTRACTOR SHALL AVOID/MINIMIZE IMPACTS TO AREAS SHOWN IN THESE DRAWINGS AS WELL AS AREAS OUTSIDE PROJECT AREA DURING THE COURSE OF WORK. ANY DAMAGE CAUSED BY CONTRACTOR'S ACTIVITIES SHALL BE RESTORED AT THE EXPENSE OF CONTRACTOR AND TO THE SATISFACTION OF OWNER AND RESOURCE AGENCIES. OWNER SHALL BE THE SOLE ASSESSOR AS TO WHETHER ENVIRONMENTAL IMPACTS HAVE OCCURRED AS A RESULT OF CONTRACTOR'S ACTIVITIES. OWNER RESERVES THE RIGHT TO SUSPEND WORK AT ANY TIME IF IMPACTS OCCUR UNTIL SATISFACTORY CORRECTIVE MEASURES ARE IMPLEMENTED BY THE CONTRACTOR.
- CONTRACTOR SHALL OBTAIN PERMISSION FROM PROPERTY OWNERS FOR STAGING AREAS AND CONSTRUCTION ACCESS ROUTES ON PRIVATE PROPERTY. ENVIRONMENTALLY SENSITIVE AREAS SHALL NOT BE USED FOR STAGING OR ACCESS.
- CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED OVER EXISTING MARSH VEGETATION, SEAGRASS OR OYSTER REEFS WITHOUT PRIOR COORDINATION WITH ENGINEER.
- CONTRACTOR SHALL TAKE MEASURES TO PROTECT ALL EXISTING IMPROVEMENTS WITHIN THE WORK AREA. ANY DAMAGE CAUSED BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED/REPAIRED AT THE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL TAKE PRECAUTIONS, SECURE EQUIPMENT, AND PROTECT THE WORK AGAINST ADVERSE WEATHER CONDITIONS AND/OR SURGE/WAKE FROM PASSING VESSELS REGARDLESS OF MARINE CONDITIONS.
- CONTRACTOR SHALL ANTICIPATE GROUNDWATER, SURFACE WATER, AND TIDAL WATER ENTERING THE PROJECT SITE AND APPLY APPROPRIATE MEANS AND METHODS FOR CONSTRUCTION IN SOFT/WET/SATURATED SOILS.
- SOIL INVESTIGATION DATA WERE ACQUIRED BY ROCK ENGINEERING AND TESTING LABORATORY, INC. AND PRESENTED IN A GEOTECHNICAL STUDY REPORT (NO. G115189) DATED 10-21-2015. SEE APPENDIX A OF THE SPECIFICATIONS.
- BARGES AND FLOATING EQUIPMENT SHALL BE MOVED BY BOAT/TUG ONLY. MOVEMENT OR REPOSITIONING OF BARGES OR FLOATING EQUIPMENT THROUGH USE OF EXCAVATOR, CRANE, OR OTHER MEANS TO PUSH OR PULL ALONG THE BAY BOTTOM IS NOT ALLOWED.

SURVEY NOTES:

- HORIZONTAL DATUM IS NAD '83 TEXAS SOUTH CENTRAL ZONE U.S. FT.
- VERTICAL DATUM IS NAVD '88 U.S. FT. REFERENCE MONUMENT "DOLLAR POINT 3"
N: 13,728,051.27
E: 3,275,129.11
ELEV: 21.2' NAVD88

3. EXCEPT AS NOTED OTHERWISE, HYDROGRAPHIC AND TOPOGRAPHIC SURVEYS WERE CONDUCTED BY NAISMITH MARINE SERVICES DURING MARCH 2015, MAY 2016, AND FEBRUARY 2020 (AS NOTED IN SITE PLAN SYMBOLOGY) AND REPRESENT THE CONDITIONS THAT EXISTED AT THE TIME OF THE SURVEYS.

TERRACE NOTES:

- CONTRACTOR SHALL DEVELOP AND SUBMIT A CONSTRUCTION PLAN/SEQUENCE FOR PLACEMENT OF FILL MATERIAL WITHIN THE SPECIFIED LINES AND GRADES.
- TERRACES SHALL GENERALLY FOLLOW ALIGNMENT SHOWN. KEY REFERENCE POINTS ARE PROVIDED IN TABLES ON SHEET 04C-01. TERRACE SEGMENTS CONNECTING ALIGNMENT/REFERENCE POINTS SHALL BE CURVILINEAR, NOT STRAIGHT.
- FINAL SURVEY TRANSECTS SHALL BE TAKEN PERPENDICULAR TO TERRACE AXIS AT EACH ALIGNMENT POINT. FINAL SURVEY SHALL ALSO INCLUDE A SURVEY TRANSECT ALONG THE CENTERLINE OF EACH TERRACE. LIMITS OF SURVEY TRANSECTS SHALL BE AS DESCRIBED ON SHEET 04C-01 TO VERIFY CONSTRUCTED AREAS MEET LINES AND GRADES. REFER TO SECTION 02000 "CONSTRUCTION SURVEYING" IN THE SPECIFICATIONS.
- UPON COMPLETION OF EACH TERRACE, A MINIMUM ONE-WEEK AND MAXIMUM TWO-WEEK INTERIM PERIOD SHALL BE PROVIDED TO ALLOW FOR SOIL CONSOLIDATION AND SETTLEMENT. DURING THIS PERIOD (I.E., NO SOONER THAN ONE WEEK AND NO LATER THAN TWO WEEKS AFTER COMPLETION OF TERRACE), CONTRACTOR MAY SURVEY TERRACE AND REQUEST ACCEPTANCE. THE COMPLETION OF SPECIFIC TERRACE CONSTRUCTION AND INITIATION OF THE SETTLING PERIOD SHALL BE NOTED IN THE DAILY REPORTS SUBMITTED BY THE CONTRACTOR. EACH TERRACE WILL BE ACCEPTED BASED ON CONFORMANCE WITH ELEVATIONS AND DIMENSIONS SPECIFIED ON THE DRAWINGS AS SUBSTANTIATED BY SURVEYS. IF THE TERRACE DOES NOT MEET LINES AND GRADES, ADDITIONAL EXCAVATED MATERIAL SHALL BE PLACED TO MAINTAIN MINIMUM REQUIRED DIMENSIONS. ONCE A TERRACE HAS BEEN ACCEPTED BY ENGINEER IN WRITING, CONTRACTOR IS NOT RESPONSIBLE FOR SUBSEQUENT GRADE CHANGES RESULTING FROM NATURAL CAUSES. REFER TO SPECIFICATION SECTIONS, 31 23 00 "EXCAVATION AND FILL" AND 35 00 01 "CONSTRUCTION SURVEYING."
- BORROW MATERIAL FOR TERRACES SHALL BE MECHANICALLY EXCAVATED FROM WITHIN DESIGNATED EXCAVATION AREAS. MULTIPLE LIFTS MAY BE REQUIRED FOR TERRACE CONSTRUCTION.
- WARNING SIGNS SHALL BE PLACED ALONG SHORELINE AND FACE SHOREWARD. LOCATION OF WARNING SIGNS SHALL BE VERIFIED WITH ENGINEER PRIOR TO INSTALLATION. SEE SHEET 05C-01 FOR SIGN DETAILS.

GRADED RIPRAP NOTES:

- BREAKWATER CREST HEIGHT AND WIDTH SHOWN ON SHEET 05C-02 ARE MINIMUM DIMENSIONS.
- GRADED RIPRAP PLACEMENT SHALL MAXIMIZE CONTACT BETWEEN STONES ON ALL SIDES WITH EACH STONE HAVING AT LEAST THREE POINTS OF CONTACT WITH OTHER STONES.
- ALL SLOPES SPECIFIED ARE MAXIMUM SLOPES. ACTUAL SLOPES MAY BE LESS (I.E. MAY BE "FLATTER").
- REFER TO SPECIFICATIONS SECTION 35 31 23 "BREAKWATER."
- REFER TO SPECIFICATIONS SECTION 31 05 19.13 "GEOTEXTILES FOR EARTHWORK."
- INITIAL SURVEY AND FINAL SURVEY SHALL BE PERFORMED AT ALL CONSTRUCTION SURVEY TRANSECTS SHOWN ON SHEET 03C-01
- FINAL SURVEY SHALL ALSO INCLUDE A SURVEY TRANSECT ALONG CENTERLINE OF COMPLETED BREAKWATERS AND EXTEND 30 FT. FROM TOE OF BREAKWATER AT BOTH ENDS AS SHOWN ON SHEET 03C-01.
- SURVEY SHOT SPACING SHALL OCCUR AT ALL GRADE BREAKS AND NOT EXCEED A SPACING OF 5 FEET.

DAYBEACON NOTES:

- DAYBEACON SHALL BE LOCATED APPROXIMATELY 10 FEET FROM SEAWARD EDGE OF BREAKWATER. LOCATION OF DAYBEACONS SHALL BE FIELD VERIFIED BY ENGINEER PRIOR TO INSTALLATION. REFER TO SHEET 05C-02 FOR DAYBEACON DETAILS.

SILT FENCE NOTES:

- SILT FENCE SHALL BE CONSTRUCTED WITH 2" x 2" TIMBER POSTS SPACED ON 6' CENTERS. FILTER FABRIC SHALL BE BURLAP, NYLON, POLYPROPYLENE OR ENGINEER APPROVED EQUAL AND REINFORCED WITH POLYESTER NETTING OR WELDED WIRE MESH. TOP OF FILTER FABRIC SHALL STAY ABOVE WATER LEVEL AT ALL TIMES. SILT FENCE SHALL BE REMOVED BY CONTRACTOR UPON COMPLETION OF PROJECT OR UPON APPROVAL OF ENGINEER. UPON REMOVAL, POSTS SHALL BE COMPLETELY EXTRACTED OR CUT SQUARE AT MUDLINE, NOT BROKEN OFF. AT CONTRACTOR'S OPTION, SILT CURTAIN MAY BE PLACED INSTEAD OF FENCE. TYPE OF SILT CURTAIN AND INSTALLATION METHOD SHALL BE SUBMITTED TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION.



ISSUE	DATE	DESCRIPTION
2	03-17-2021	FIELD ORDER NO. 1
1	12-15-2020	CHANGE ORDER NO. 1
0	09-01-2020	ISSUE FOR BIDS

PROJECT MANAGER	CAMERON PERRY
DESIGNED BY	C. PERRY
DRAWN BY	F. MARTINEZ
CHECKED BY	D. HEILMAN
PROJECT NUMBER	10189630



DOLLAR BAY MARSH RESTORATION

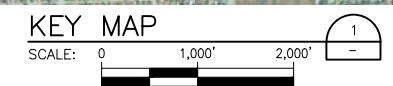
GENERAL NOTES AND LEGENDS

FILENAME | 00G-01.DWG
SCALE | AS SHOWN

SHEET
00G-01



NOTES:
1. REFER TO NOTES ON SHEET 00G-01.



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
KEY MAP

FILENAME | 00G-02
SCALE | AS SHOWN

SHEET
00G-02



- NOTES:**
1. REFER TO NOTES ON SHEET 00G-01.
 2. SURVEY POINTS ON THIS SHEET REPRESENT MULTIPLE SURVEYS AND ARE SHOWN WITH THE SAME MARKER FOR CLARITY. SEE PARTIAL PLAN SHEETS 01C-02, 01C-03, AND LEGEND ON SHEET 00G-01 FOR SURVEY DATES.

OVERALL EXISTING CONDITIONS 

SCALE: 0 1,000' 2,000'



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OVERALL EXISTING CONDITIONS

FILENAME | 01C-01.DWG
SCALE | AS SHOWN

SHEET
01C-01



NOTES:
1. REFER TO NOTES ON SHEET 00G-01.

EXISTING CONDITIONS - SITE 1
SCALE: 0 200' 400'



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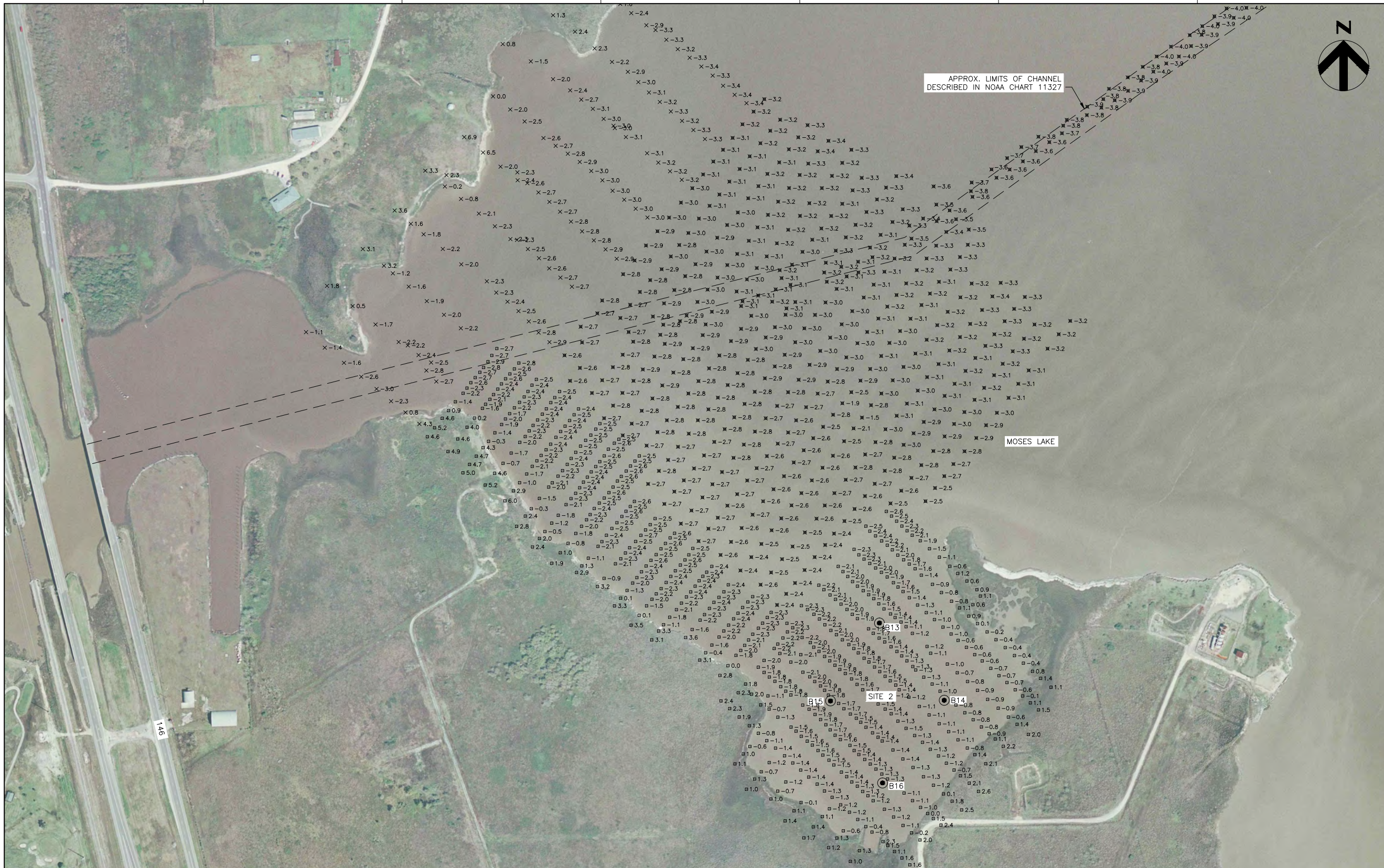


DOLLAR BAY MARSH RESTORATION

EXISTING CONDITIONS - SITE 1

FILENAME 01C-02.dwg
SCALE

SHEET 01C-02



NOTES:
1. REFER TO NOTES ON SHEET 00G-01.

EXISTING CONDITIONS - SITE 2
SCALE: 0 200' 400'



HDR Engineering, Inc.
TBP/ELS Firm
Registration No. F-754

ISSUE	DATE	DESCRIPTION
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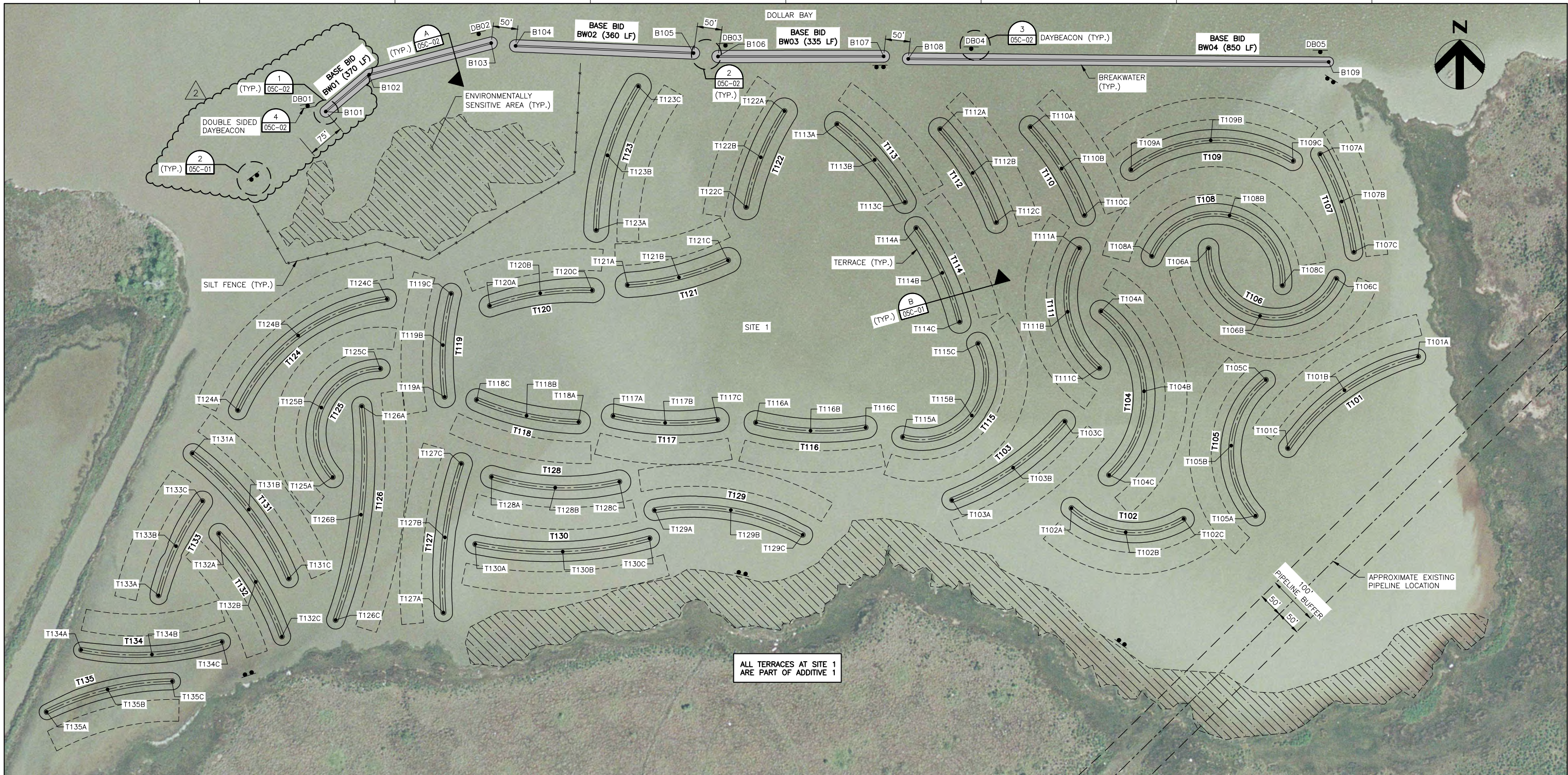


DOLLAR BAY
MARSH
RESTORATION

EXISTING CONDITIONS - SITE 2

FILENAME 01C-03.dwg
SCALE

SHEET
01C-03



PROJECT LAYOUT SITE 1 3
 SCALE: 0 100' 200' 00G-02

- NOTES:
- REFER TO NOTES ON SHEET 00G-01.
 - REFER TO SHEET 04C-01 FOR TERRACE COORDINATE TABLES.



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**DOLLAR BAY
 MARSH
 RESTORATION**

PROJECT LAYOUT SITE 1

FILENAME | 02C-01.DWG
 SCALE | AS SHOWN

SHEET
02C-01



- NOTES:
1. REFER TO NOTES ON SHEET 00G-01
 2. REFER TO SHEET 04C-01 FOR TERRACE COORDINATE TABLES.

ALL TERRACES AT SITE 2 ARE PART OF ADDITIVE 2

PROJECT LAYOUT SITE 2
 SCALE: 0 100' 200'



HDR Engineering, Inc.
 TBPELS Firm
 Registration No. F-754

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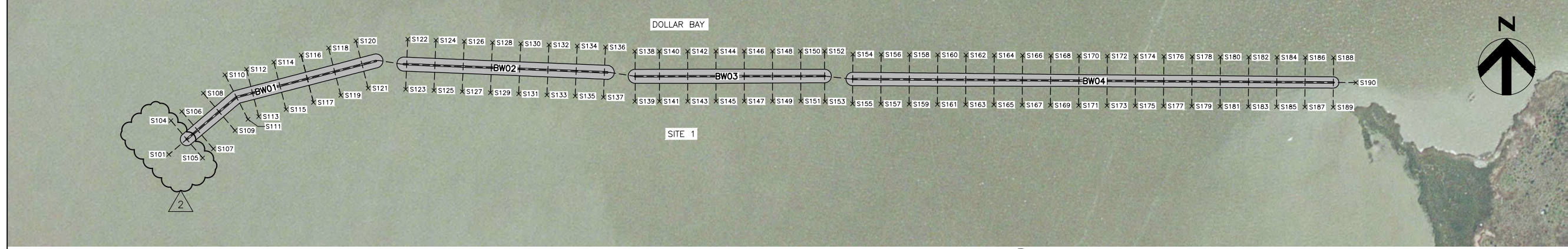
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DOLLAR BAY MARSH RESTORATION

PROJECT LAYOUT SITE 2

FILENAME	02C-02.DWG	SHEET	02C-02
SCALE	AS SHOWN		



- NOTES:**
1. REFER TO NOTES ON SHEET 00G-01.
 2. REFER TO SHEET 04C-02 FOR SURVEY TRANSECT COORDINATE TABLES.

SITE 1 – BREAKWATER CONSTRUCTION SURVEY PLAN 1

SCALE: 0 100' 200'



SITE 2 – BREAKWATER CONSTRUCTION SURVEY PLAN 2

SCALE: 0 100' 200'



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DOLLAR BAY MARSH RESTORATION

BREAKWATER CONSTRUCTION SURVEY PLAN

FILENAME | 03C-01.dwg
SCALE |

SHEET | **03C-01**

TERRACE COORDINATES			TERRACE COORDINATES			TERRACE COORDINATES		
DESIGNATION	NORTHING	EASTING	DESIGNATION	NORTHING	EASTING	DESIGNATION	NORTHING	EASTING
T101A	13,722,707	3,270,660	T116C	13,722,564	3,269,544	T132B	13,722,252	3,268,311
T101B	13,722,640	3,270,512	T117A	13,722,588	3,269,034	T132C	13,722,141	3,268,364
T101C	13,722,523	3,270,398	T117B	13,722,574	3,269,138	T133A	13,722,225	3,268,114
T102A	13,722,401	3,269,960	T117C	13,722,580	3,269,244	T133B	13,722,324	3,268,150
T102B	13,722,352	3,270,069	T118A	13,722,575	3,268,963	T133C	13,722,415	3,268,203
T102C	13,722,379	3,270,186	T118B	13,722,588	3,268,858	T134A	13,722,114	3,267,958
T103A	13,722,417	3,269,718	T118C	13,722,620	3,268,758	T134B	13,722,105	3,268,101
T103B	13,722,483	3,269,842	T119A	13,722,626	3,268,693	T134C	13,722,131	3,268,242
T103C	13,722,576	3,269,946	T119B	13,722,731	3,268,689	T135A	13,721,989	3,267,888
T104A	13,722,799	3,270,020	T119C	13,722,835	3,268,706	T135B	13,722,034	3,268,011
T104B	13,722,638	3,270,107	T120A	13,722,810	3,268,784	T135C	13,722,051	3,268,142
T104C	13,722,468	3,270,036	T120B	13,722,836	3,268,886	T201A	13,722,175	3,257,648
T105A	13,722,386	3,270,332	T120C	13,722,842	3,268,991	T201B	13,722,287	3,257,542
T105B	13,722,528	3,270,283	T121A	13,722,853	3,269,063	T201C	13,722,371	3,257,413
T105C	13,722,661	3,270,353	T121B	13,722,868	3,269,166	T202A	13,722,322	3,257,381
T106A	13,722,926	3,270,237	T121C	13,722,902	3,269,265	T202B	13,722,237	3,257,510
T106B	13,722,790	3,270,341	T122A	13,723,204	3,269,380	T202C	13,722,125	3,257,616
T106C	13,722,865	3,270,495	T122B	13,723,111	3,269,332	T203A	13,722,249	3,257,312
T107A	13,723,117	3,270,463	T122C	13,723,010	3,269,302	T203B	13,722,394	3,257,294
T107B	13,723,021	3,270,506	T123A	13,722,964	3,268,999	T203C	13,722,466	3,257,421
T107C	13,722,920	3,270,531	T123B	13,723,115	3,269,022	T204A	13,722,142	3,257,218
T108A	13,722,911	3,270,123	T123C	13,723,254	3,269,084	T204B	13,722,239	3,257,147
T108B	13,722,993	3,270,279	T124A	13,722,600	3,268,275	T204C	13,722,390	3,257,157
T108C	13,722,852	3,270,386	T124B	13,722,750	3,268,397	T205A	13,722,088	3,257,088
T109A	13,723,086	3,270,081	T124C	13,722,824	3,268,576	T205B	13,722,210	3,257,030
T109B	13,723,145	3,270,241	T125A	13,722,464	3,268,466	T205C	13,722,343	3,257,017
T109C	13,723,103	3,270,408	T125B	13,722,605	3,268,443	T206A	13,721,974	3,256,921
T110A	13,723,172	3,269,877	T125C	13,722,683	3,268,562	T206B	13,722,151	3,256,914
T110B	13,723,088	3,269,940	T126A	13,722,607	3,268,525	T206C	13,722,315	3,256,849
T110C	13,722,994	3,269,986	T126B	13,722,388	3,268,524	T207A	13,721,935	3,256,779
T111A	13,722,927	3,269,976	T126C	13,722,175	3,268,472	T207B	13,722,029	3,256,802
T111B	13,722,798	3,269,952	T127A	13,722,190	3,268,690	T207C	13,722,125	3,256,787
T111C	13,722,685	3,270,016	T127B	13,722,342	3,268,693	T208A	13,721,919	3,256,863
T112A	13,723,168	3,269,694	T127C	13,722,491	3,268,726	T208B	13,721,860	3,256,976
T112B	13,723,079	3,269,760	T128A	13,722,464	3,268,788	T208C	13,721,888	3,257,100
T112C	13,722,980	3,269,808	T128B	13,722,443	3,268,916	T209A	13,721,941	3,257,020
T113A	13,723,178	3,269,486	T128C	13,722,455	3,269,046	T209B	13,721,943	3,257,142
T113B	13,723,106	3,269,562	T129A	13,722,397	3,269,117	T209C	13,721,869	3,257,240
T113C	13,723,020	3,269,623	T129B	13,722,397	3,269,271	T210A	13,722,035	3,257,241
T114A	13,722,968	3,269,646	T129C	13,722,347	3,269,417	T210B	13,721,981	3,257,331
T114B	13,722,877	3,269,699	T130A	13,722,328	3,268,755	T210C	13,721,912	3,257,409
T114C	13,722,778	3,269,734	T130B	13,722,313	3,268,931	T211A	13,722,131	3,257,326
T115A	13,722,545	3,269,619	T130C	13,722,340	3,269,107	T211B	13,722,079	3,257,411
T115B	13,722,588	3,269,758	T131A	13,722,512	3,268,183	T211C	13,722,012	3,257,485
T115C	13,722,734	3,269,771	T131B	13,722,398	3,268,297	T212A	13,721,732	3,257,001
T116A	13,722,574	3,269,322	T131C	13,722,259	3,268,377	T212B	13,721,777	3,257,188
T116B	13,722,558	3,269,432	T132A	13,722,350	3,268,236	T212C	13,721,871	3,257,355

BREAKWATER COORDINATES		
DESIGNATION	NORTHING	EASTING
B101	13,723,203	3,268,452
B102	13,723,278	3,268,540
B103	13,723,342	3,268,787
B104	13,723,336	3,268,836
B105	13,723,322	3,269,196
B106	13,723,315	3,269,245
B107	13,723,315	3,269,580
B108	13,723,310	3,269,630
B109	13,723,304	3,270,480
B201	13,722,586	3,257,367
B202	13,722,496	3,257,086
B203	13,722,459	3,257,039
B204	13,722,343	3,256,735
B205	13,722,330	3,256,668
B206	13,722,477	3,256,448
B207	13,722,496	3,256,418
B208	13,722,533	3,256,364
B209	13,722,629	3,256,243
B210	13,722,651	3,256,216
B211	13,722,749	3,256,090
B212	13,722,809	3,256,036
B213	13,722,835	3,256,013
B214	13,723,007	3,255,853
B215	13,723,037	3,255,835
B216	13,723,335	3,255,650
B217	13,723,393	3,255,540

2

2



ISSUE	DATE	DESCRIPTION
2	03-17-2021	FIELD ORDER NO. 1
1	12-15-2020	CHANGE ORDER NO. 1
0	09-01-2020	ISSUE FOR BIDS

PROJECT MANAGER	CAMERON PERRY
DESIGNED BY	C. PERRY
DRAWN BY	F. MARTINEZ
CHECKED BY	D. HEILMAN
PROJECT NUMBER	10189630



DOLLAR BAY MARSH RESTORATION

COORDINATE TABLES

FILENAME 04C-01.dwg
SCALE

SHEET 04C-01

TRANSECT COORDINATES			TRANSECT COORDINATES			TRANSECT COORDINATES			TRANSECT COORDINATES			TRANSECT COORDINATES			DAYBEACON COORDINATE		
DESIGNATION	NORTHING	EASTING	DESIGNATION	NORTHING	EASTING	DESIGNATION	NORTHING	EASTING	DESIGNATION	NORTHING	EASTING	DESIGNATION	NORTHING	EASTING	DESIGNATION	NORTHING	EASTING
S101	13,723,176	3,268,421	S133	13,723,282	3,269,089	S163	13,723,265	3,269,830	S201	13,722,596	3,257,400	S252	13,722,642	3,256,291	DB01	13,723,215	3,268,416
S104	13,723,236	3,268,424	S134	13,723,368	3,269,143	S164	13,723,352	3,269,880	S202	13,722,626	3,257,354	S253	13,722,580	3,256,242	DB02	13,723,360	3,268,769
S105	13,723,170	3,268,480	S135	13,723,280	3,269,139	S165	13,723,264	3,269,880	S203	13,722,545	3,257,380	S254	13,722,660	3,256,268	DB03	13,723,337	3,269,268
S106	13,723,252	3,268,443	S136	13,723,366	3,269,193	S166	13,723,351	3,269,930	S204	13,722,611	3,257,307	S255	13,722,599	3,256,219	DB04	13,723,330	3,269,764
S107	13,723,186	3,268,499	S137	13,723,278	3,269,189	S167	13,723,264	3,269,930	S205	13,722,530	3,257,333	S256	13,722,682	3,256,240	DB05	13,723,324	3,270,470
S108	13,723,285	3,268,481	S138	13,723,359	3,269,244	S168	13,723,351	3,269,980	S206	13,722,596	3,257,259	S257	13,722,619	3,256,191	DB06	13,722,594	3,257,329
S109	13,723,219	3,268,537	S139	13,723,270	3,269,245	S169	13,723,264	3,269,980	S207	13,722,515	3,257,285	S258	13,722,706	3,256,210	DB07	13,722,469	3,257,006
S110	13,723,317	3,268,520	S140	13,723,359	3,269,288	S170	13,723,351	3,270,030	S208	13,722,580	3,257,212	S259	13,722,643	3,256,161	DB08	13,722,353	3,256,670
S111	13,723,239	3,268,561	S141	13,723,270	3,269,288	S171	13,723,263	3,270,030	S209	13,722,499	3,257,237	S260	13,722,737	3,256,171	DB09	13,722,621	3,256,287
S112	13,723,327	3,268,558	S142	13,723,359	3,269,338	S172	13,723,350	3,270,080	S210	13,722,565	3,257,164	S261	13,722,674	3,256,122	DB10	13,722,975	3,255,911
S113	13,723,243	3,268,579	S143	13,723,271	3,269,338	S173	13,723,263	3,270,080	S211	13,722,484	3,257,190	S262	13,722,768	3,256,131	DB11	13,723,393	3,255,585
S114	13,723,340	3,268,606	S144	13,723,359	3,269,388	S174	13,723,350	3,270,130	S212	13,722,550	3,257,116	S263	13,722,705	3,256,082	DB12	13,723,397	3,255,507
S115	13,723,256	3,268,628	S145	13,723,271	3,269,388	S175	13,723,262	3,270,130	S213	13,722,469	3,257,142	S264	13,722,781	3,256,115			
S116	13,723,352	3,268,655	S146	13,723,359	3,269,438	S176	13,723,350	3,270,180	S214	13,722,536	3,257,073	S265	13,722,720	3,256,063			
S117	13,723,269	3,268,676	S147	13,723,271	3,269,438	S177	13,723,262	3,270,180	S215	13,722,455	3,257,099	S266	13,722,798	3,256,099			
S118	13,723,365	3,268,703	S148	13,723,359	3,269,488	S178	13,723,349	3,270,230	S216	13,722,492	3,257,013	S267	13,722,746	3,256,040			
S119	13,723,281	3,268,725	S149	13,723,271	3,269,488	S179	13,723,262	3,270,230	S217	13,722,418	3,257,041	S268	13,722,835	3,256,066			
S120	13,723,377	3,268,751	S150	13,723,359	3,269,537	S180	13,723,349	3,270,280	S218	13,722,474	3,256,966	S269	13,722,783	3,256,007			
S121	13,723,294	3,268,773	S151	13,723,271	3,269,538	S181	13,723,261	3,270,280	S219	13,722,400	3,256,995	S270	13,722,874	3,256,031			
S122	13,723,380	3,268,843	S152	13,723,359	3,269,580	S182	13,723,349	3,270,330	S220	13,722,456	3,256,920	S271	13,722,822	3,255,972			
S123	13,723,292	3,268,839	S153	13,723,270	3,269,581	S183	13,723,261	3,270,330	S221	13,722,382	3,256,948	S272	13,722,912	3,255,997			
S124	13,723,378	3,268,893	S154	13,723,354	3,269,630	S184	13,723,348	3,270,380	S222	13,722,438	3,256,873	S273	13,722,859	3,255,939			
S125	13,723,290	3,268,889	S155	13,723,266	3,269,630	S185	13,723,261	3,270,380	S223	13,722,364	3,256,901	S274	13,722,949	3,255,964			
S126	13,723,376	3,268,943	S156	13,723,353	3,269,680	S186	13,723,348	3,270,430	S224	13,722,420	3,256,826	S275	13,722,896	3,255,905			
S127	13,723,288	3,268,939	S157	13,723,266	3,269,680	S187	13,723,260	3,270,430	S225	13,722,346	3,256,855	S276	13,722,986	3,255,930			
S128	13,723,374	3,268,993	S158	13,723,353	3,269,730	S188	13,723,348	3,270,480	S226	13,722,402	3,256,780	S277	13,722,933	3,255,872			
S129	13,723,286	3,268,989	S159	13,723,265	3,269,730	S189	13,723,260	3,270,480	S227	13,722,328	3,256,808	S278	13,723,023	3,255,897			
S130	13,723,372	3,269,043	S160	13,723,353	3,269,780	S190	13,723,303	3,270,520	S228	13,722,384	3,256,733	S279	13,722,970	3,255,838			
S131	13,723,284	3,269,039	S161	13,723,265	3,269,780				S229	13,722,311	3,256,761	S280	13,723,057	3,255,868			
S132	13,723,370	3,269,093	S162	13,723,352	3,269,830				S230	13,722,368	3,256,684	S281	13,723,016	3,255,801			
									S231	13,722,302	3,256,640	S282	13,723,100	3,255,841			
									S232	13,722,395	3,256,642	S283	13,723,059	3,255,775			
									S233	13,722,330	3,256,599	S284	13,723,143	3,255,815			
									S234	13,722,423	3,256,601	S285	13,723,101	3,255,748			
									S235	13,722,357	3,256,557	S286	13,723,185	3,255,789			
									S236	13,722,451	3,256,559	S287	13,723,144	3,255,722			
									S237	13,722,385	3,256,515	S288	13,723,228	3,255,763			
									S238	13,722,478	3,256,518	S289	13,723,186	3,255,696			
									S239	13,722,413	3,256,474	S290	13,723,270	3,255,736			
									S240	13,722,506	3,256,476	S291	13,723,229	3,255,670			
									S241	13,722,441	3,256,432	S292	13,723,313	3,255,710			
									S242	13,722,530	3,256,441	S293	13,723,272	3,255,643			
									S243	13,722,464	3,256,397	S294	13,723,363	3,255,677			
									S244	13,722,552	3,256,407	S295	13,723,306	3,255,623			
									S245	13,722,486	3,256,363	S296	13,723,393	3,255,625			
									S246	13,722,565	3,256,390	S297	13,723,323	3,255,588			
									S247	13,722,502	3,256,340	S298	13,723,410	3,255,591			
									S248	13,722,579	3,256,370	S299	13,723,341	3,255,555			
									S249	13,722,518	3,256,320	S300	13,723,428	3,255,558			
									S250	13,722,611	3,256,330	S301	13,723,358	3,255,521			
									S251	13,722,549	3,256,281	S302	13,723,412	3,255,504			



ISSUE	DATE	DESCRIPTION
2	03-17-2021	FIELD ORDER NO. 1
1	12-15-2020	CHANGE ORDER NO. 1
0	09-01-2020	ISSUE FOR BIDS

PROJECT MANAGER	CAMERON PERRY
DESIGNED BY	C. PERRY
DRAWN BY	F. MARTINEZ
CHECKED BY	D. HEILMAN
PROJECT NUMBER	10189630

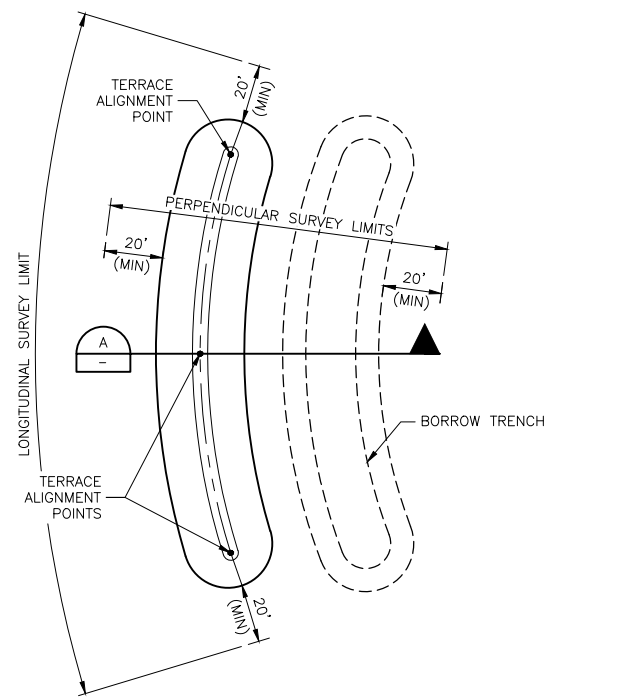


DOLLAR BAY MARSH RESTORATION

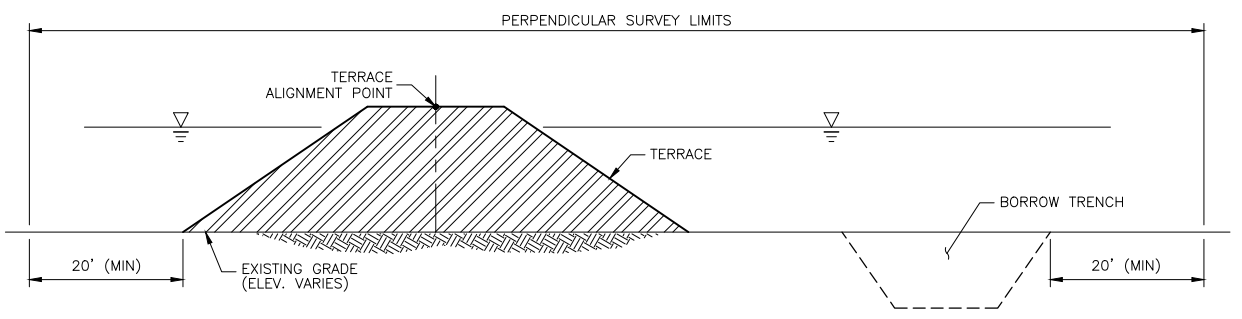
COORDINATE TABLES

FILENAME | 04C-02.dwg
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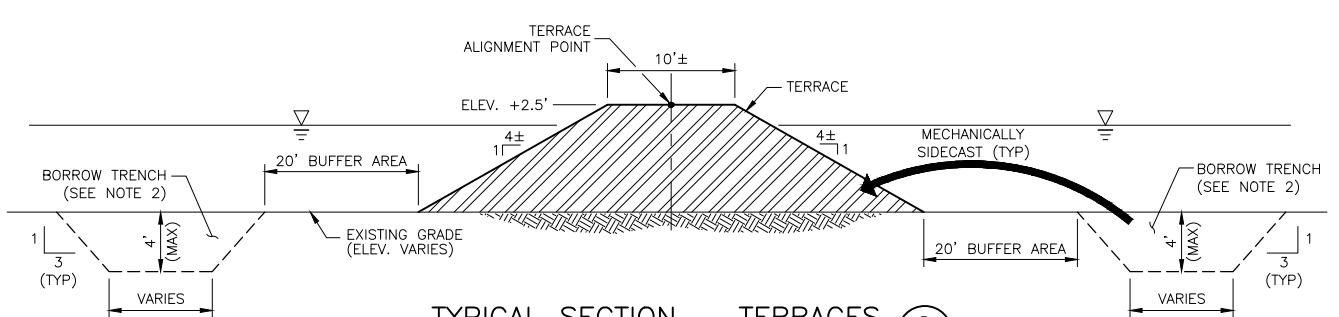
SHEET
04C-02



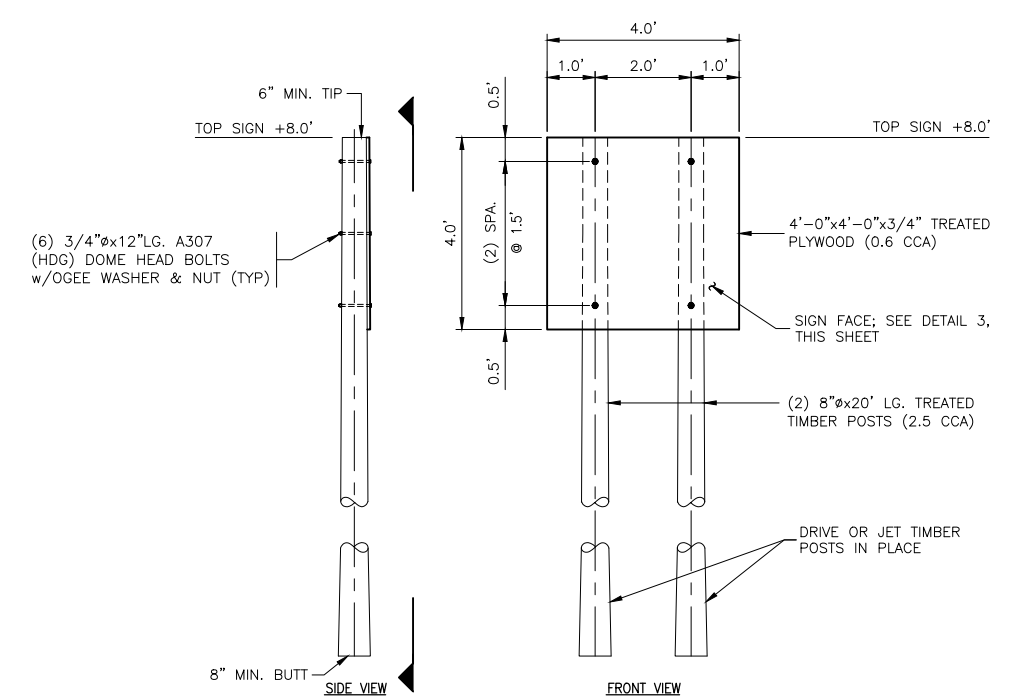
TYPICAL DETAIL - TERRACE SURVEY LIMITS
SCALE: NOT TO SCALE



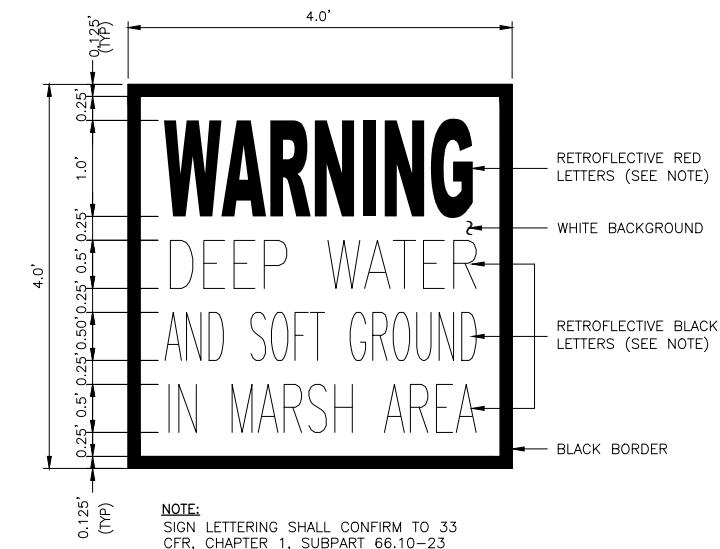
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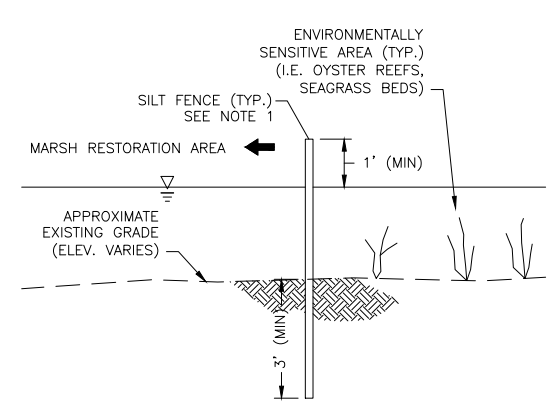
TYPICAL SECTION - TERRACES
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TYPICAL WARNING SIGN
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SIGN FACE
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TYPICAL DETAIL - SILT FENCE
SCALE: NOT TO SCALE

- NOTES:**
1. REFER TO NOTES ON OOG-01
 2. BORROW TRENCH LOCATIONS SHALL BE AS SHOWN ON SHEET O2C-01 AND O2C-02.



ISSUE	DATE	DESCRIPTION
2	03-17-2021	FIELD ORDER NO. 1
1	12-15-2020	CHANGE ORDER NO. 1
0	09-01-2020	ISSUE FOR BIDS

PROJECT MANAGER	CAMERON PERRY
DESIGNED BY	C. PERRY
DRAWN BY	F. MARTINEZ
CHECKED BY	D. HEILMAN
PROJECT NUMBER	10189630

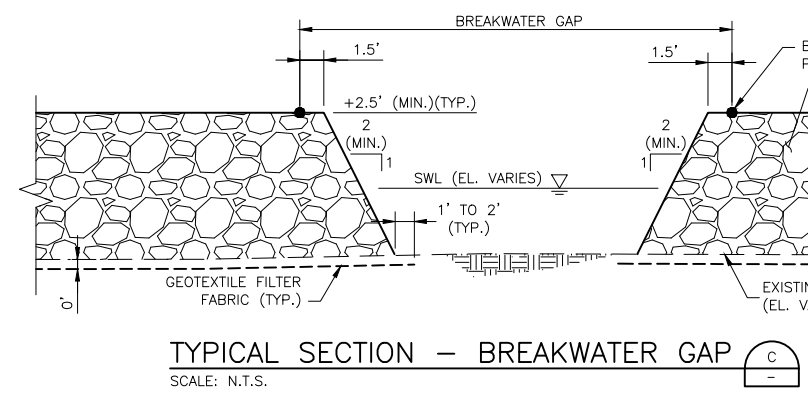
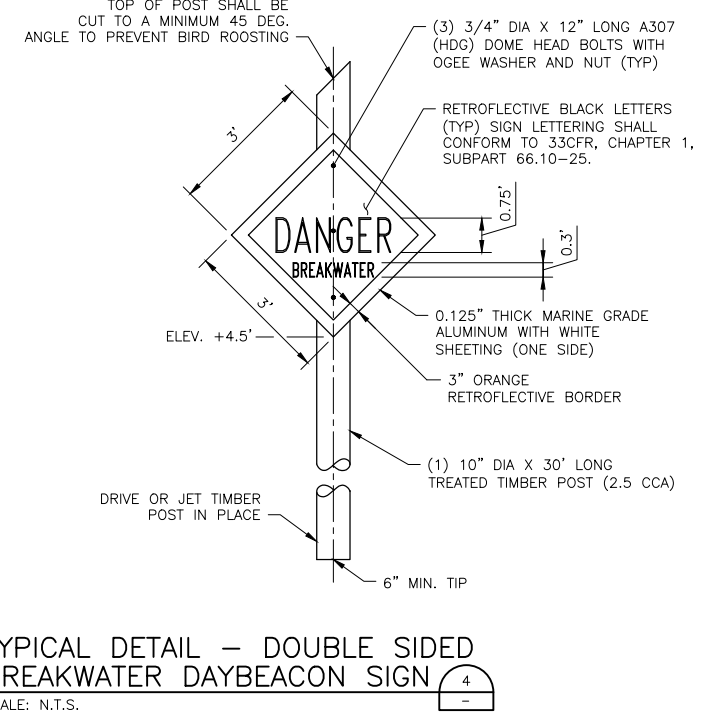
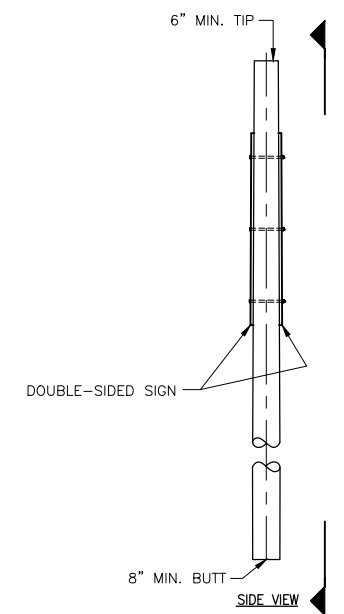
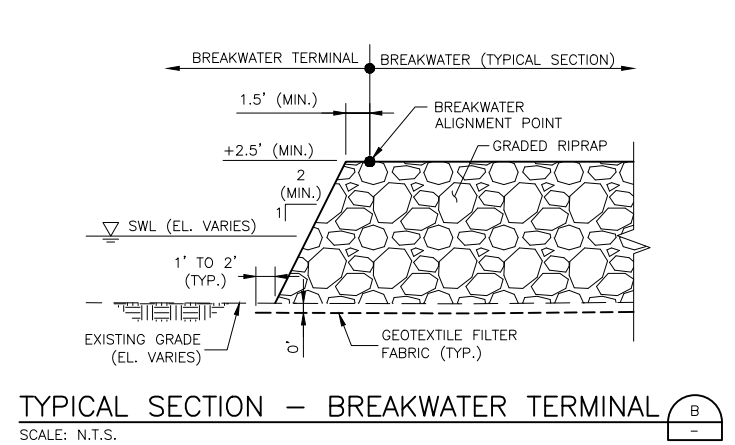
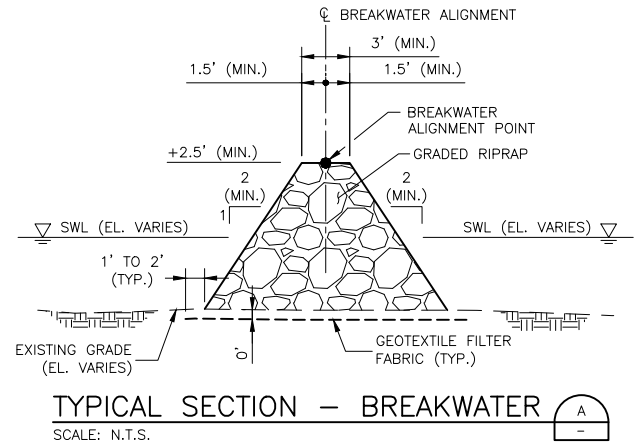
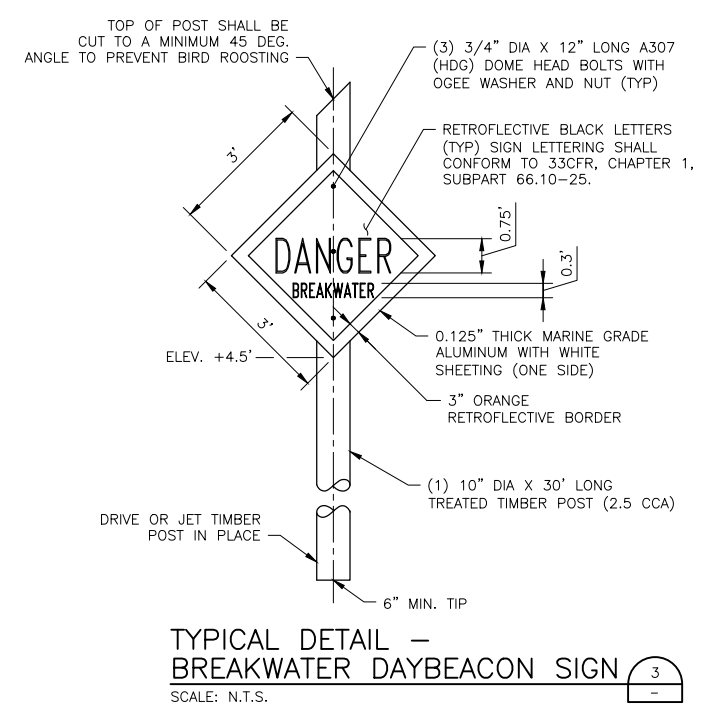
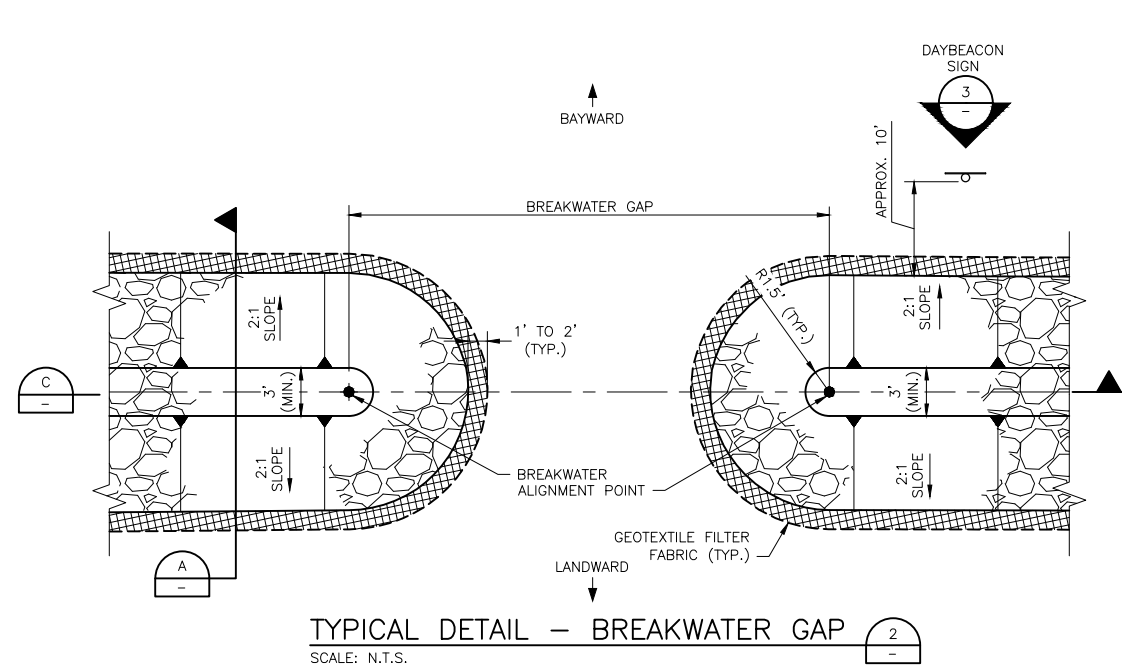
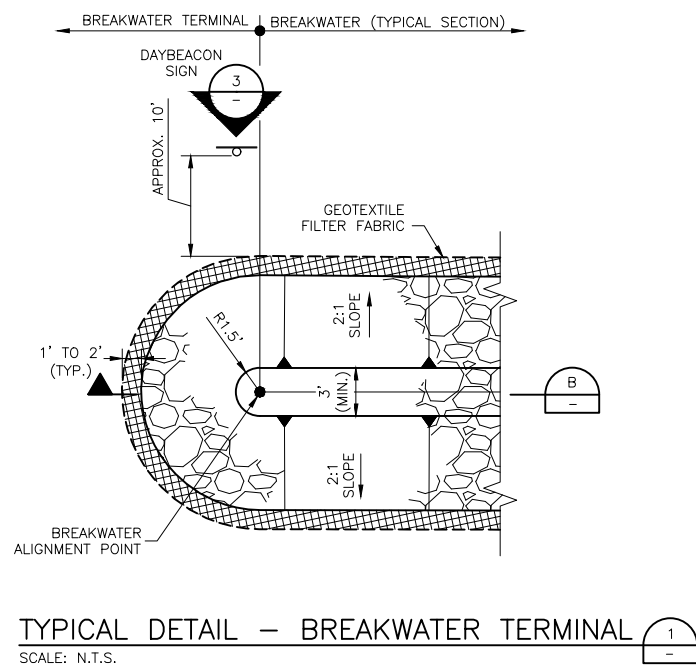


DOLLAR BAY MARSH RESTORATION

TYPICAL SECTIONS AND DETAILS - TERRACES

FILENAME | 05C-01.dwg
SCALE |

SHEET
05C-01



- NOTE:**
- REFER TO NOTES ON SHEET 00G-01.
 - GEOTEXTILE FILTER FABRIC SHOWN BELOW EXISTING GRADE FOR CLARITY. ACTUAL PLACEMENT WILL BE DIRECTLY ON EXISTING GRADE IN CONTACT WITH GRADED RIPRAP.



ISSUE	DATE	DESCRIPTION
2	03-17-2021	FIELD ORDER NO. 1
1	12-15-2020	CHANGE ORDER NO. 1
0	09-01-2020	ISSUE FOR BIDS

PROJECT MANAGER	CAMERON PERRY
DESIGNED BY	C. PERRY
DRAWN BY	F. MARTINEZ
CHECKED BY	D. HEILMAN
PROJECT NUMBER	10189630



DOLLAR BAY MARSH RESTORATION

TYPICAL SECTIONS AND DETAILS - BREAKWATERS

FILENAME | 05C-02.DWG
SCALE | AS SHOWN

SHEET
05C-02